

an adjacent surface as pressure between that surface and the adhesive is increased), preferably a latex-free and hypoallergenic material. The adhesion of the adhesive layer 13 should be strong enough to adhere reliably to the skin but weak enough to be easily removed from the skin after use.

As shown in FIG. 3, the eye patch 10 may also include a second adhesive layer 14 between the second sheet member 12 and the first adhesive layer 13. The second adhesive layer 14 is not essential, but improves adhesion of the second sheet member 12 to the first sheet member 11. The second adhesive layer 14 may have a plan view size equal to the plan view size of the second sheet member 12. The second adhesive layer 14 may be made of the same material as the first adhesive layer 13.

The first sheet member 11 has a size that sufficiently covers the patient's eye and eyelid when applied. For instance, for an adult patient, the first sheet member 11 preferably has a length of from about 40 mm to about 60 mm, more preferably about 50 mm, and a width from about 20 mm to about 35 mm, more preferably about 28 mm. The second sheet member 12 preferably joins the first sheet member 11 at a central portion of the first adhesive layer 13 as shown in FIG. 2.

Having the above-described length and width allows the eye patch 10 to fit within the eye socket of a patient, and thus maximizes the facial area accessible to a doctor or other professional. The part of the eye patch 10 that contacts most of the patient's eyelid is free of exposed adhesive. This is more comfortable to the wearer, and allows the eye and eyelid to slightly move underneath the eye patch 10. Specifically, the side of the sheet member 12 facing the eye and eyelid is free of adhesive. This also prevents needless pain or discomfort when the eye patch is removed after use.

A peripheral portion 13A of the first adhesive layer 13, which is not overlapped by the second sheet member 12, should be large enough to provide sufficient adhesion of the eye patch 10 to the area of the face surrounding the eye. For example, the peripheral portion 13A may have a width of approximately 5 mm.

The first sheet member 11 and the second sheet member 12 each preferably have a thickness in a range of from about 0.1 mm to about 5 mm, more preferably from about 0.1 mm to about 2 mm, and even more preferably about 0.5 mm. The appropriate thickness may vary depending upon the type of procedure for which the eye patch is intended to be used, but in general, a thinner eye patch is desired to reduce the bulkiness of the eye patch 10 and increase the comfort of the patient. For example, for a so-called microdermabrasion process, in which aluminum-oxide crystals or the like are discharged from a wand onto a patient's face, an eye patch 10 with a first sheet member 12 with a thickness of about 0.5 mm and a second sheet member 12 with a thickness of about 0.5 mm effectively protects the eyes.

The color of the eye patch 10 may be the natural color of the foamed plastic material, such as off-white, cream, or the like, or any other desired color such as beige, gray, black, fluorescent green, etc.

As shown in FIGS. 4 and 5, to prevent the peripheral portion 13A of the adhesive layer 13 and the eye-contacting side of the second sheet member 12 of the eye patch 10 from being contaminated, the peripheral portion 13A of the adhesive layer 13 may be attached to a release layer 15, which is removed prior to use of the eye patch 10. The release layer 15 may, for example, be a waxed paper, plastic film or the like.

The release layer 15 may be a continuous strip provided in the form of a dispenser roll 16, as shown in FIG. 6, with

eye patches 10 provided at a predetermined spacing. This dispenser roll 16 may be provided in a dispenser box (not shown) and fed through a slot or the like provided in the box. The release layer 15 may have serrations 15A in between the eye patches 10 to facilitate separation into discrete units. Providing the release layer 15 and eye patches in the form of the dispenser roll 16 allows convenient dispensing and helps keep the eye patches 10 clean, since the eye patches 10 are not exposed until use.

When the eye patch 10 is to be applied to a patient, the release layer 15 is first peeled off from the disposable eye patch 10. When the release layer 15 has been removed, the peripheral portion 13A of the first adhesive layer 13 is exposed. The eye patch 10 is then positioned over the patient's closed eye and eyelid, and the edge of the eye patch 10 is gently pressed to seal the peripheral portion 13A of the adhesive layer 13 to the facial tissue surrounding the patient's eye and eyelid. After use, the eye patch 10 is gently peeled away from the eye and eyelid.

FIG. 7 shows an example of a patient 17 wearing the disposable eye patch 10 and tissues around the patient's eye. During this treatment, the tissue areas directly around the patient's eye are exposed and accessible to the doctor or therapist 19 using a tool 18, while the eye is protected by the eye patch 10.

A method of manufacturing the eye patch 10 will now be described. First, a sheet material is provided having an adhesive layer coated on one side thereof. The first sheet member 11 and the second sheet member 12 are formed from the sheet material, e.g., by stamping, cutting or the like. Then the first sheet member 11 and the second sheet member 12 are positioned properly with respect to each other and pressed together, with their adhesive-coated surfaces facing each other and coming into contact. Finally, the eye patch 10 is attached to release layer 15, with the exposed peripheral portion 13A of the adhesive on the first sheet member 11 contacting the release layer 15.

This method for manufacturing is not limited to the above-described order of steps. For example, the second sheet member 12 can be cut first, and then adhered to the sheet material. The first sheet member 11 can then be cut in the predetermined shape, thus forming the eye patch 10.

The above-mentioned method of manufacturing an eye patch is relatively fast and easy, since it basically involves only one or two cutting steps and a press-together step, and economical since the only materials needed are a single type of adhesive-coated sheet and a release layer material.

While the invention has been described in conjunction with specific embodiments described above, many equivalent alternatives, modifications and variations will become apparent to those skilled in the art once given this disclosure. Accordingly, the preferred embodiments of the invention as set forth above are considered to be illustrative and not limiting. Various changes to the described embodiments may be made without departing from the spirit and scope of the invention. For example, although the illustrated embodiment has two adhesive layers 13 and 14, it is also possible to have only one adhesive layer. As another example, although the eye patch preferably has a generally oval shape, a tab (not shown) may be provided on an edge of the eye patch 10 to allow easy gripping and peeling of the eye patch 10 from the eye and eyelid after use. Such a tab should be large enough for fingers to grip, but otherwise as small as possible to leave as much facial area exposed as possible.

What is claimed is:

1. A disposable eye patch for covering a human eye, comprising:

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- a first sheet member sized to fit entirely inside an eye socket;
- a second sheet member smaller than the first sheet member; and
- a first adhesive layer applied over substantially an entire surface of one side of the first sheet member, the first sheet member being attached to the second sheet member by a central portion of the first adhesive layer, and the second sheet member not overlapping a peripheral portion of the first adhesive layer.
2. The disposable eye patch according to claim 1, further comprising a release layer attached to the peripheral portion of the first adhesive layer.
3. The disposable eye patch according to claim 1, wherein at least one of the first sheet member and the second sheet member is made of biocompatible foamed plastic material.
4. The disposable eye patch according to claim 1, wherein the first sheet member and the second sheet member are made of a same material.
5. The disposable eye patch according to claim 1, wherein the first adhesive layer comprises a pressure-sensitive adhesive.
6. The disposable eye patch according to claim 1, further comprising a second adhesive layer between the first adhesive layer and the second sheet member.
7. The disposable eye patch according to claim 1, wherein a width of the first sheet member is in a range of from about 20 mm to about 35 mm, and a length of the first sheet member is in a range of from about 40 mm to about 60 mm.
8. A method of protecting a patient's eye during treatment of an adjacent portion of the patient's face, comprising adhering a disposable eye patch according to claim 1 over said eye and entirely within a corresponding eye socket of said patient.
9. A dispenser roll assembly, comprising:
 - an elongate release layer coiled into a roll;
 - a plurality of disposable eye patches according to claim 1 arranged along the release layer and releasably attached to the release layer by the first adhesive layer.
10. A disposable eye patch comprising:
 - a first sheet member having a first thickness;
 - a second sheet member smaller than the first sheet member having a second thickness substantially equal to the first thickness;
 - a first adhesive layer applied over substantially an entire surface of one side of the first sheet member, the first sheet member being attached to the second sheet member by a central portion of the first adhesive layer, and the second sheet member not overlapping a peripheral portion of the first adhesive layer.
11. The disposable eye patch according to claim 10, wherein the first and second thicknesses are each in a range of from about 0.1 mm to about 5 mm.
12. The disposable eye patch according to claim 10, wherein the first and second thicknesses are each in a range of from about 0.1 mm to about 2 mm.
13. The disposable eye patch according to claim 10, wherein the first and second thicknesses are each about 0.5 mm.
14. The disposable eye patch according to claim 10, further comprising a release layer attached to the peripheral portion of the first adhesive layer.
15. The disposable eye patch according to claim 10, wherein at least one of the first sheet member and the second sheet member is made of biocompatible foamed plastic material.
16. The disposable eye patch according to claim 10, wherein the first sheet member and the second sheet member are made of a same material.

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17. The disposable eye patch according to claim 10, wherein the first adhesive layer comprises a pressure-sensitive adhesive.
18. The disposable eye patch according to claim 10, further comprising a second adhesive layer between the first adhesive layer and the second sheet member.
19. A method of manufacturing the disposable eye patch of claim [8] 10, comprising:
 - providing sheet material having an adhesive layer applied to one side of the sheet material;
 - forming the first sheet member from the sheet material;
 - forming the second sheet member from the sheet material; and
 - adhering the first sheet member to the second sheet member with the adhesive layer on the first sheet member contacting the adhesive layer on the second sheet member.
20. A method of protecting a patient's eye during treatment of an adjacent portion of the patient's face, comprising adhering a disposable eye patch according to claim [8] 10 over said eye and entirely within a corresponding eye socket of said patient.
21. A dispenser roll assembly, comprising:
 - an elongate release layer coiled into a roll;
 - a plurality of disposable eye patches according to claim 10 arranged along the release layer and releasably attached to the release layer by the first adhesive layer.
22. A disposable eye patch comprising:
 - a first sheet member made of foamed plastic material having a first thickness in a range of from about 0.1 mm to about 5 mm,
 - a second sheet member made of foamed plastic material having a second thickness in a range of from about 0.1 mm to about 5 mm;
 - a first adhesive layer applied over substantially an entire surface of one side of the first sheet member, the first sheet member being attached to the second sheet member by a central portion of the first adhesive layer, and the second sheet member not overlapping a peripheral portion of the first adhesive layer.
23. The disposable eye patch according to claim 22, wherein the first and second thicknesses are each in a range of from about 0.1 mm to about 2 mm.
24. The disposable eye patch according to claim 22, wherein the first and second thicknesses are each about 0.5 mm.
25. The disposable eye patch according to claim 22, further comprising a release layer attached to the peripheral portion of the first adhesive layer.
26. The disposable eye patch according to claim 22, wherein the first adhesive layer comprises a pressure-sensitive adhesive.
27. The disposable eye patch according to claim 22, further comprising a second adhesive layer between the first adhesive layer and the second sheet member.
28. A method of protecting a patient's eye during treatment of an adjacent portion of the patient's face, comprising adhering a disposable eye patch according to claim [18] 22 over said eye and entirely within a corresponding eye socket of said patient.
29. A dispenser roll assembly, comprising:
 - an elongate release layer coiled into a roll;
 - a plurality of disposable eye patches according to claim 22 arranged along the release layer and releasably attached to the release layer by the first adhesive layer.

30. The disposable eye patch according to claim 22, wherein the second sheet member does not overlap any part of an entire peripheral portion of the first adhesive layer.

31. The disposable eye patch according to claim 10, wherein the second sheet member does not overlap any part of an entire peripheral portion of the first adhesive layer.

32. The disposable eye patch according to claim 10, wherein the second sheet member is smaller than the first sheet member in both vertical and lateral directions.

33. The disposable eye patch according to claim 1, wherein the second sheet member does not overlap any part of an entire peripheral portion of the first adhesive layer.

34. The disposable eye patch according to claim 1, wherein the second sheet member is smaller than the first sheet member in both vertical and lateral directions.

35. A disposable eye patch for covering a human eye, comprising:

a first sheet member sized to fit entirely inside an eye socket in a vertical dimension of the eye socket;

a second sheet member smaller than the first sheet member; and

a first adhesive layer applied over substantially an entire surface of one side of the first sheet member, the first sheet member being attached to the second sheet member by a central portion of the first adhesive layer, and the second sheet member not overlapping a peripheral portion of the first adhesive layer.

36. The disposable eye patch according to claim 35, wherein the second sheet member does not overlap any part of an entire peripheral portion of the first adhesive layer.

37. The disposable eye patch according to claim 35, wherein the second sheet member is smaller than the first sheet member in both vertical and lateral directions.

38. A disposable eye patch for covering a human eye, comprising:

a first sheet member sized to fit entirely inside an eye socket in a lateral dimension of the eye socket;

a second sheet member smaller than the first sheet member; and

a first adhesive layer applied over substantially an entire surface of one side of the first sheet member, the first sheet member being attached to the second sheet member by a central portion of the first adhesive layer, and the second sheet member not overlapping a peripheral portion of the first adhesive layer.

39. The disposable eye patch according to claim 38, wherein the second sheet member does not overlap any part of an entire peripheral portion of the first adhesive layer.

40. The disposable eye patch according to claim 38, wherein the second sheet member is smaller than the first sheet member in both vertical and lateral directions.

41. A disposable eye patch comprising:

a first sheet member having a first thickness in a range of from about 0.1 mm to about 5 mm,

a second sheet member having a second thickness in a range of from about 0.1 mm to about 5 mm; and

a first adhesive layer applied over substantially an entire surface of one side of the first sheet member, the first sheet member being attached to the second sheet

member by a central portion of the first adhesive layer, and the second sheet member not overlapping a peripheral portion of the first adhesive layer.

42. The disposable eye patch according to claim 41, wherein the first thickness is in a range of from about 0.1 mm to about 2 mm, and the second thickness is in a range of from about 0.1 mm to about 2 mm.

43. The disposable eye patch according to claim 41, wherein one of the first sheet member and the second sheet member is made of foamed plastic material.

44. The disposable eye patch according to claim 41, wherein the second sheet member does not overlap any part of an entire peripheral portion of the first adhesive layer.
